

GOMOS Daily Report 04-MAY-2007

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	06MAY2007 05:50:28
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (04MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

2. Summary of products arrived in PCF (Product Control Facility)

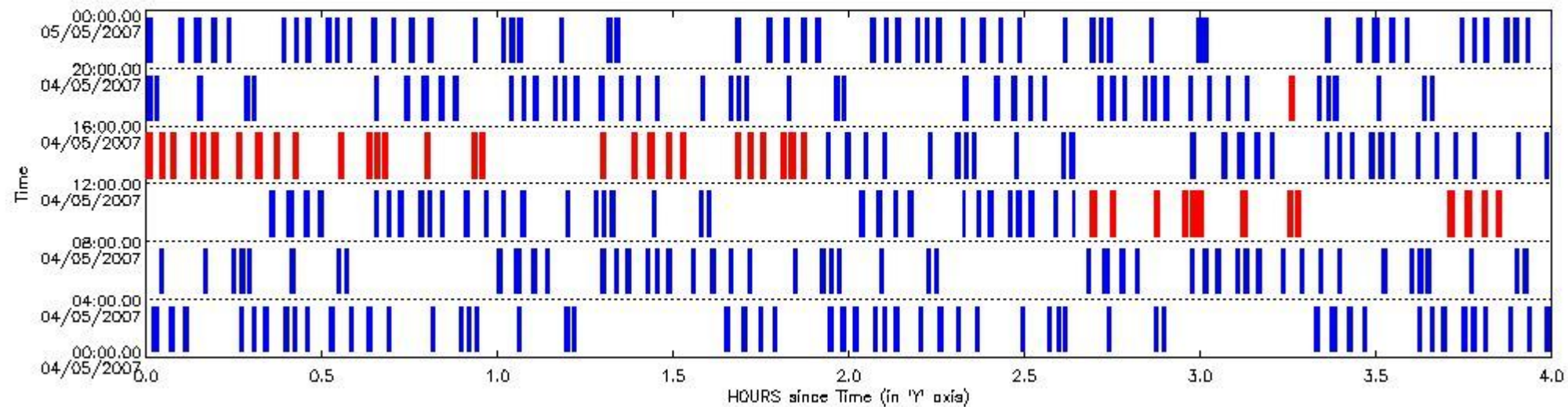
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
04-MAY-2007 10:41:15	29GamVir	121	27059
04-MAY-2007 10:44:31	47EpsVir	138	27059
04-MAY-2007 10:52:12	12Alp2CVn	152	27059
04-MAY-2007 10:56:52	64GamUMa	87	27059
04-MAY-2007 10:58:22	48BetUMa	82	27059
04-MAY-2007 10:59:38	50AlpUMa	36	27059
04-MAY-2007 11:06:57	1AlpUMi	49	27059
04-MAY-2007 11:14:56	37DelCas	110	27059
04-MAY-2007 11:16:16	18AlpCas	68	27059
04-MAY-2007 11:42:17	24AlpPsA	18	27059
04-MAY-2007 11:45:07	DSA1035	0	27059
04-MAY-2007 11:48:05	AlpGru	31	27059
04-MAY-2007 11:50:33	AlpTuc	148	27060
04-MAY-2007 12:00:00	AlpTrA	43	27060
04-MAY-2007 12:02:12	BetTrA	134	27060

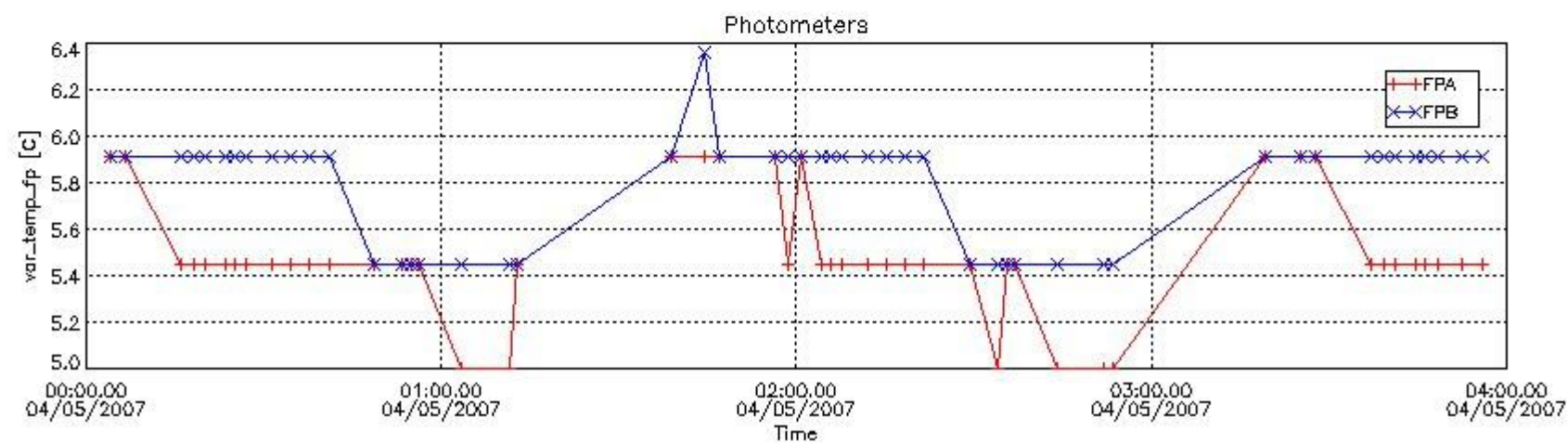
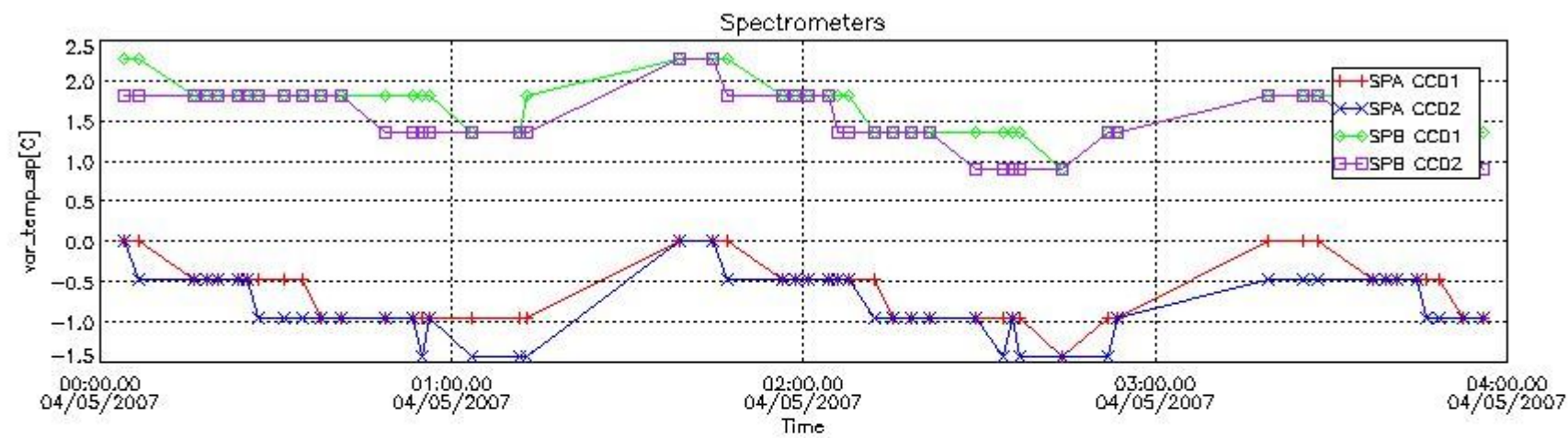
04-MAY-2007 12:04:11	Alp1Cen	4	27060
04-MAY-2007 12:07:39	AlpLup	78	27060
04-MAY-2007 12:09:11	EtaCen	81	27060
04-MAY-2007 12:11:14	5TheCen	54	27060
04-MAY-2007 12:15:28	46GamHya	169	27060
04-MAY-2007 12:18:45	67AlpVir	15	27060
04-MAY-2007 12:21:51	29GamVir	121	27060
04-MAY-2007 12:25:07	47EpsVir	138	27060
04-MAY-2007 12:32:48	12Alp2CVn	152	27060
04-MAY-2007 12:37:33	79ZetUMa	55	27060
04-MAY-2007 12:38:58	48BetUMa	82	27060
04-MAY-2007 12:40:14	50AlpUMa	36	27060
04-MAY-2007 12:47:33	1AlpUMi	49	27060
04-MAY-2007 12:55:32	37DelCas	110	27060
04-MAY-2007 12:56:52	18AlpCas	68	27060
04-MAY-2007 13:17:37	16BetCet	52	27060
04-MAY-2007 13:22:53	24AlpPsA	18	27060
04-MAY-2007 13:25:43	DSA1035	0	27060
04-MAY-2007 13:28:41	AlpGru	31	27060
04-MAY-2007 13:31:10	AlpTuc	148	27061
04-MAY-2007 13:40:36	AlpTrA	43	27061
04-MAY-2007 13:42:48	BetTrA	134	27061
04-MAY-2007 13:44:48	Alp1Cen	4	27061
04-MAY-2007 13:48:15	AlpLup	78	27061
04-MAY-2007 13:49:47	EtaCen	81	27061
04-MAY-2007 13:51:50	5TheCen	54	27061
04-MAY-2007 19:15:11	12Alp2CVn	152	27064

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070504_000356_000000442057_00445_27052_7433.N1	04-MAY-2007 00:03:56	Dark	43.500	31	Alp Gru	1.7340	15200.	87	27052	No
2	GOM_TRA_1PNPDE20070504_000625_000000382057_00446_27053_7434.N1	04-MAY-2007 00:06:25	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	27053	No
3	GOM_TRA_1PNPDE20070504_001553_000000402057_00446_27053_7435.N1	04-MAY-2007 00:15:53	Straylight	40.000	43	Alp TrA	1.9100	4250.0	80	27053	No
4	GOM_TRA_1PNPDE20070504_001804_000000382057_00446_27053_7436.N1	04-MAY-2007 00:18:04	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	27053	No
5	GOM_TRA_1PNPDE20070504_002004_000000452057_00446_27053_7437.N1	04-MAY-2007 00:20:04	Straylight	44.500	4	Alp1Cen	-0.010000	5800.0	89	27053	No
6	GOM_TRA_1PNPDE20070504_002331_000000402057_00446_27053_7438.N1	04-MAY-2007 00:23:31	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	27053	No
7	GOM_TRA_1PNPDE20070504_002504_000000402057_00446_27053_7439.N1	04-MAY-2007 00:25:04	Straylight	39.500	81	Eta Cen	2.3560	28000.	79	27053	No
8	GOM_TRA_1PNPDE20070504_002707_000000442057_00446_27053_7440.N1	04-MAY-2007 00:27:07	Twilight_stray	43.500	54	5The Cen	2.0550	4500.0	87	27053	No
9	GOM_TRA_1PNPDE20070504_003121_000000382057_00446_27053_7441.N1	04-MAY-2007 00:31:21	Bright	37.500	169	46Gam Hya	2.9910	4700.0	75	27053	No
10	GOM_TRA_1PNPDE20070504_003439_000000392057_00446_27053_7442.N1	04-MAY-2007 00:34:39	Bright	39.000	15	67Alp Vir	0.97600	28000.	78	27053	No
11	GOM_TRA_1PNPDE20070504_003745_000000362057_00446_27053_7443.N1	04-MAY-2007 00:37:45	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	27053	No
12	GOM_TRA_1PNPDE20070504_004101_000000352057_00446_27053_7444.N1	04-MAY-2007 00:41:01	Bright	34.500	138	47Eps Vir	2.8280	4700.0	69	27053	No
13	GOM_TRA_1PNPDE20070504_004842_000000342057_00446_27053_7445.N1	04-MAY-2007 00:48:42	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	27053	No
14	GOM_TRA_1PNPDE20070504_005321_000000352057_00446_27053_7446.N1	04-MAY-2007 00:53:21	Bright	34.500	87	64Gam UMa	2.4330	11000.	69	27053	No
15	GOM_TRA_1PNPDE20070504_005450_000000352057_00446_27053_7447.N1	04-MAY-2007 00:54:50	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	27053	No
16	GOM_TRA_1PNPDE20070504_005607_000000382057_00446_27053_7448.N1	04-MAY-2007 00:56:07	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	27053	No
17	GOM_TRA_1PNPDE20070504_010327_000000342057_00446_27053_7449.N1	04-MAY-2007 01:03:27	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27053	No
18	GOM_TRA_1PNPDE20070504_011126_000000462057_00446_27053_7450.N1	04-MAY-2007 01:11:26	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	27053	No
19	GOM_TRA_1PNPDE20070504_011246_000000332057_00446_27053_7451.N1	04-MAY-2007 01:12:46	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	27053	No
20	GOM_TRA_1PNPDE20070504_013844_000000452057_00446_27053_7608.N1	04-MAY-2007 01:38:44	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	27053	No
21	GOM_TRA_1PNPDE20070504_014432_000000432057_00446_27053_7609.N1	04-MAY-2007 01:44:32	Dark	42.500	31	Alp Gru	1.7340	15200.	85	27053	No
22	GOM_TRA_1PNPDE20070504_014702_000000392057_00447_27054_7610.N1	04-MAY-2007 01:47:02	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	27054	No
23	GOM_TRA_1PNPDE20070504_015629_000000482057_00447_27054_7611.N1	04-MAY-2007 01:56:29	Straylight	48.000	43	Alp TrA	1.9100	4250.0	96	27054	No
24	GOM_TRA_1PNPDE20070504_015841_000000412057_00447_27054_7612.N1	04-MAY-2007 01:58:41	Straylight	41.000	134	Bet TrA	2.8100	6600.0	82	27054	No
25	GOM_TRA_1PNPDE20070504_020041_000000442057_00447_27054_7613.N1	04-MAY-2007 02:00:41	Straylight	44.000	4	Alp1Cen	-0.010000	5800.0	88	27054	No
26	GOM_TRA_1PNPDE20070504_020408_000000402057_00447_27054_7614.N1	04-MAY-2007 02:04:08	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	27054	No
27	GOM_TRA_1PNPDE20070504_020540_000000402057_00447_27054_7615.N1	04-MAY-2007 02:05:40	Straylight	40.000	81	Eta Cen	2.3560	28000.	80	27054	No

28	GOM_TRA_1PNPDE20070504_020743_000000432057_00447_27054_7616.N1	04-MAY-2007 02:07:43	Twilight_stray	42.500	54	5The Cen	2.0550	4500.0	85	27054	No
29	GOM_TRA_1PNPDE20070504_021157_000000382057_00447_27054_7617.N1	04-MAY-2007 02:11:57	Bright	37.500	169	46Gam Hya	2.9910	4700.0	75	27054	No
30	GOM_TRA_1PNPDE20070504_021515_000000392057_00447_27054_7618.N1	04-MAY-2007 02:15:15	Bright	39.000	15	67Alp Vir	0.97600	28000.	78	27054	No
31	GOM_TRA_1PNPDE20070504_021821_000000362057_00447_27054_7619.N1	04-MAY-2007 02:18:21	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	27054	No
32	GOM_TRA_1PNPDE20070504_022137_000000352057_00447_27054_7620.N1	04-MAY-2007 02:21:37	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	27054	No
33	GOM_TRA_1PNPDE20070504_022918_000000352057_00447_27054_7621.N1	04-MAY-2007 02:29:18	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	27054	No
34	GOM_TRA_1PNPDE20070504_023358_000000362057_00447_27054_7622.N1	04-MAY-2007 02:33:58	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	27054	No
35	GOM_TRA_1PNPDE20070504_023527_000000352057_00447_27054_7623.N1	04-MAY-2007 02:35:27	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	27054	No
36	GOM_TRA_1PNPDE20070504_023643_000000332057_00447_27054_7624.N1	04-MAY-2007 02:36:43	Bright	33.000	36	50Alp UMa	1.8000	6300.0	66	27054	No
37	GOM_TRA_1PNPDE20070504_024403_000000322057_00447_27054_7625.N1	04-MAY-2007 02:44:03	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	27054	No
38	GOM_TRA_1PNPDE20070504_025202_000000342057_00447_27054_7755.N1	04-MAY-2007 02:52:02	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	27054	No
39	GOM_TRA_1PNPDE20070504_025322_000000342057_00447_27054_7756.N1	04-MAY-2007 02:53:22	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	27054	No
40	GOM_TRA_1PNPDE20070504_031920_000000482057_00447_27054_7757.N1	04-MAY-2007 03:19:20	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	27054	No
41	GOM_TRA_1PNPDE20070504_032509_000000402057_00447_27054_7758.N1	04-MAY-2007 03:25:09	Dark	40.000	31	Alp Gru	1.7340	15200.	80	27054	No
42	GOM_TRA_1PNPDE20070504_032738_000000382057_00448_27055_7759.N1	04-MAY-2007 03:27:38	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	27055	No
43	GOM_TRA_1PNPDE20070504_033705_000000392057_00448_27055_7760.N1	04-MAY-2007 03:37:05	Straylight	38.500	43	Alp TrA	1.9100	4250.0	77	27055	No
44	GOM_TRA_1PNPDE20070504_033917_000000382057_00448_27055_7761.N1	04-MAY-2007 03:39:17	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	27055	No
45	GOM_TRA_1PNPDE20070504_034117_000000492057_00448_27055_7762.N1	04-MAY-2007 03:41:17	Straylight	48.500	4	Alp1Cen	-0.010000	5800.0	97	27055	No
46	GOM_TRA_1PNPDE20070504_034444_000000402057_00448_27055_7763.N1	04-MAY-2007 03:44:44	Straylight	40.000	78	Alp Lup	2.3040	28000.	80	27055	No
47	GOM_TRA_1PNPDE20070504_034616_000000412057_00448_27055_7764.N1	04-MAY-2007 03:46:16	Straylight	40.500	81	Eta Cen	2.3560	28000.	81	27055	No
48	GOM_TRA_1PNPDE20070504_034819_000000412057_00448_27055_7765.N1	04-MAY-2007 03:48:19	Twilight_stray	41.000	54	5The Cen	2.0550	4500.0	82	27055	No
49	GOM_TRA_1PNPDE20070504_035233_000000382057_00448_27055_7766.N1	04-MAY-2007 03:52:33	Bright	38.000	169	46Gam Hya	2.9910	4700.0	76	27055	No
50	GOM_TRA_1PNPDE20070504_035551_000000392057_00448_27055_7767.N1	04-MAY-2007 03:55:51	Bright	38.500	15	67Alp Vir	0.97600	28000.	77	27055	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



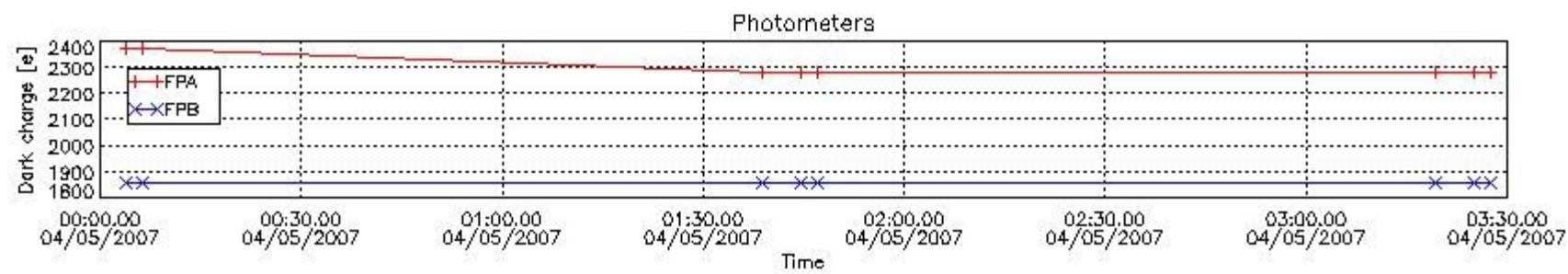
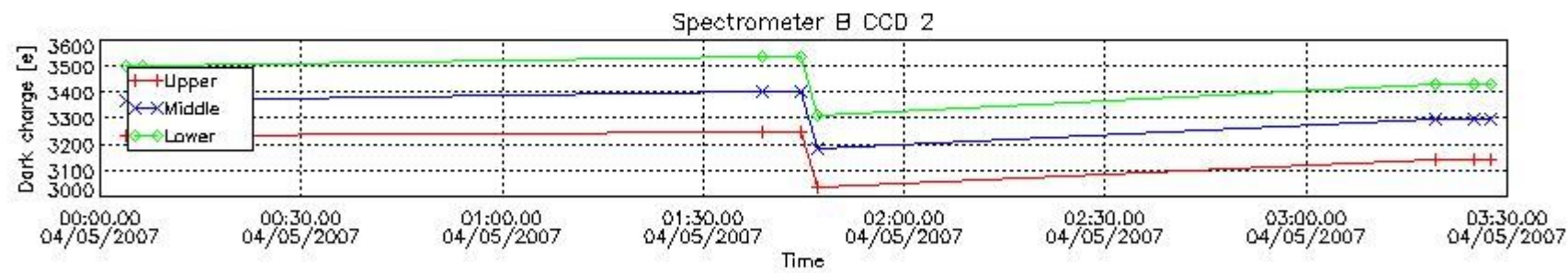
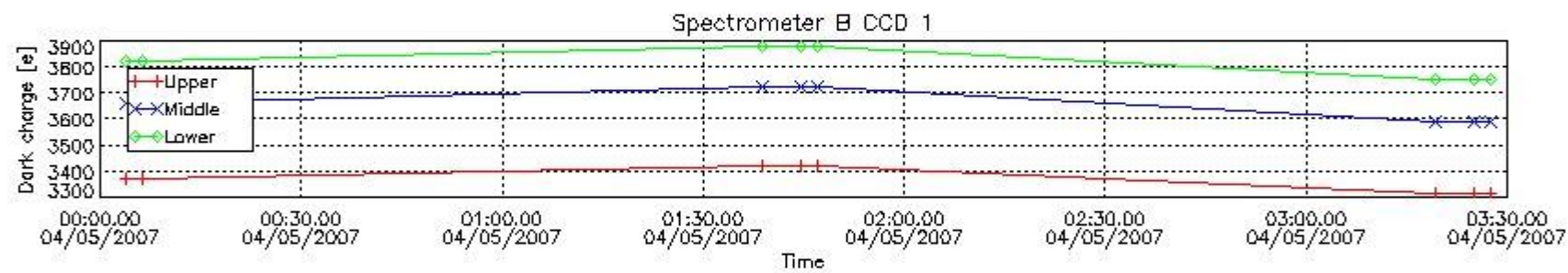
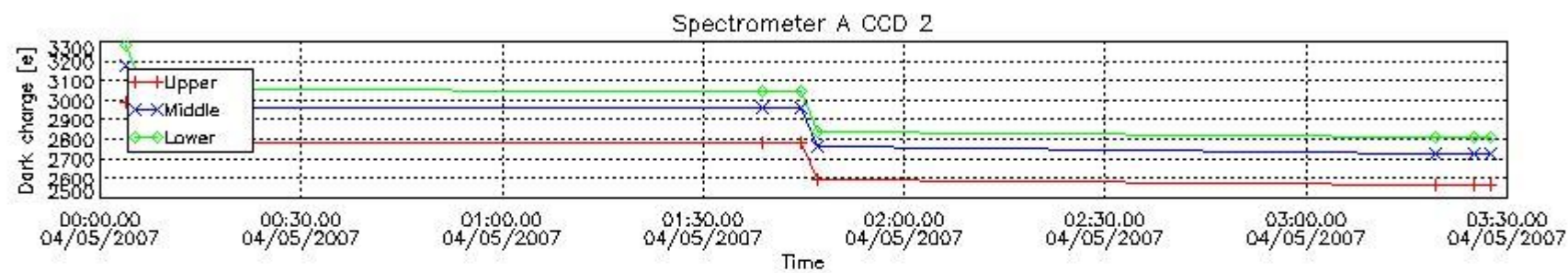
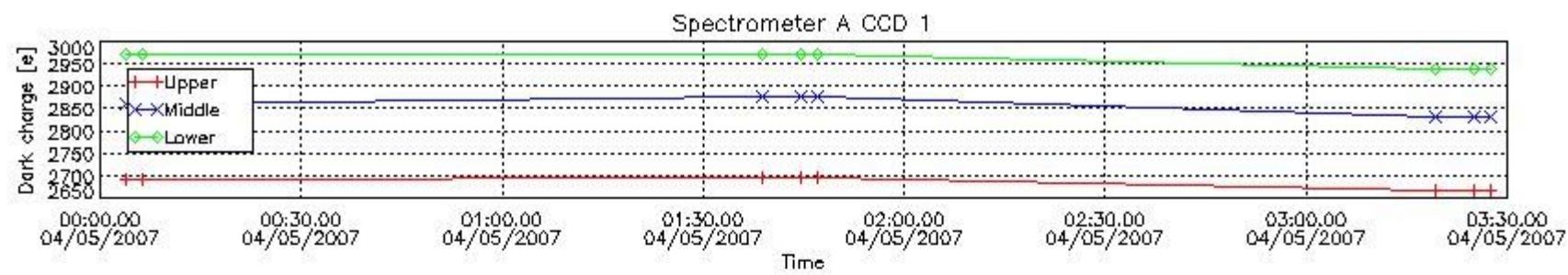
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



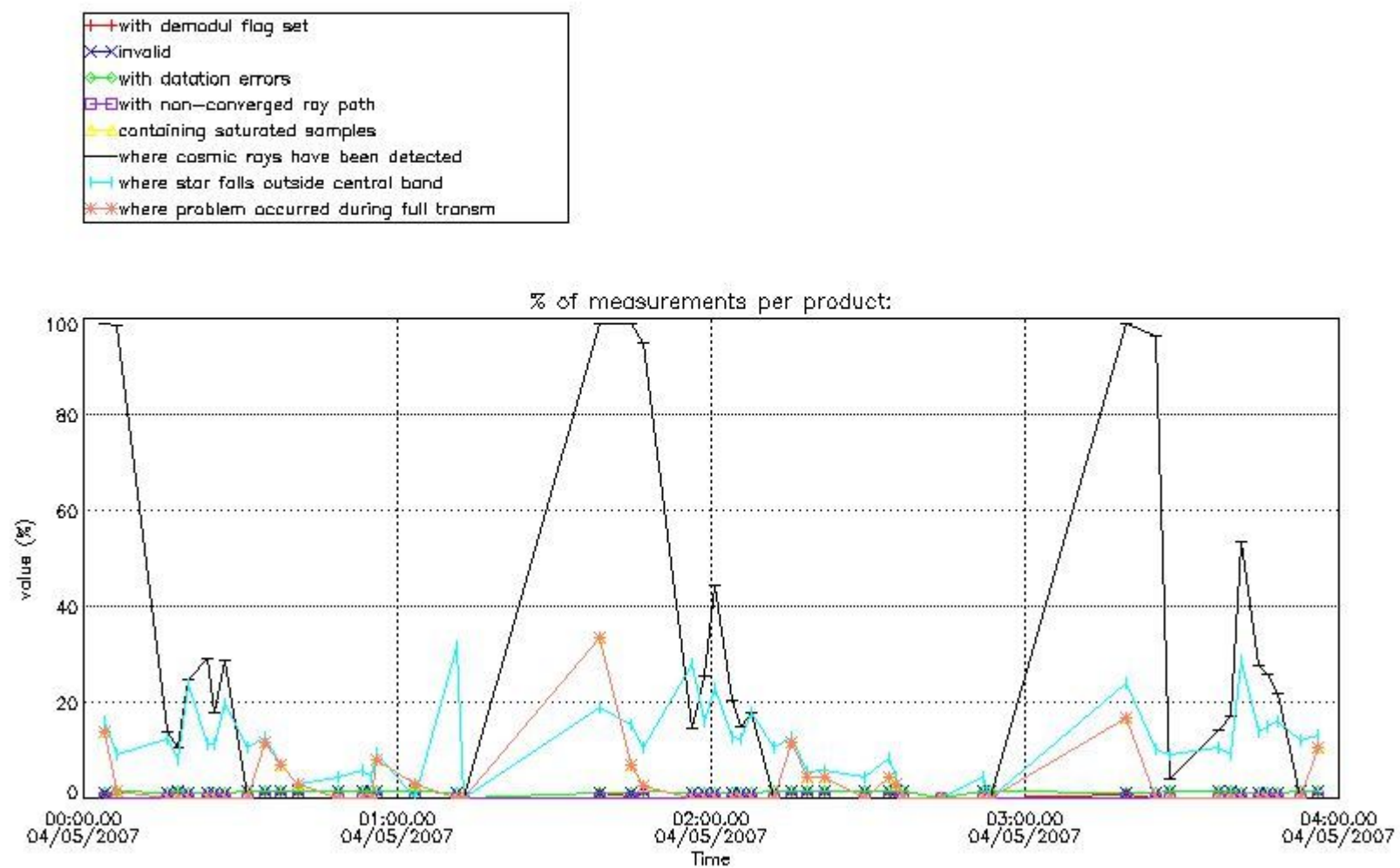
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

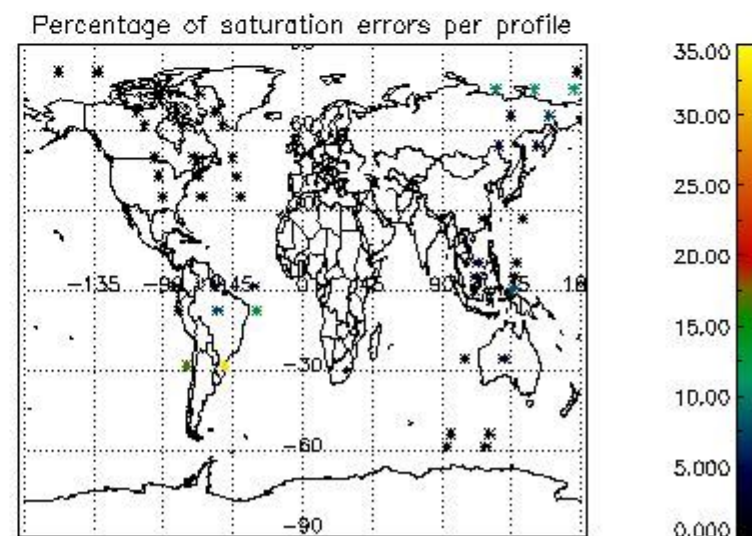
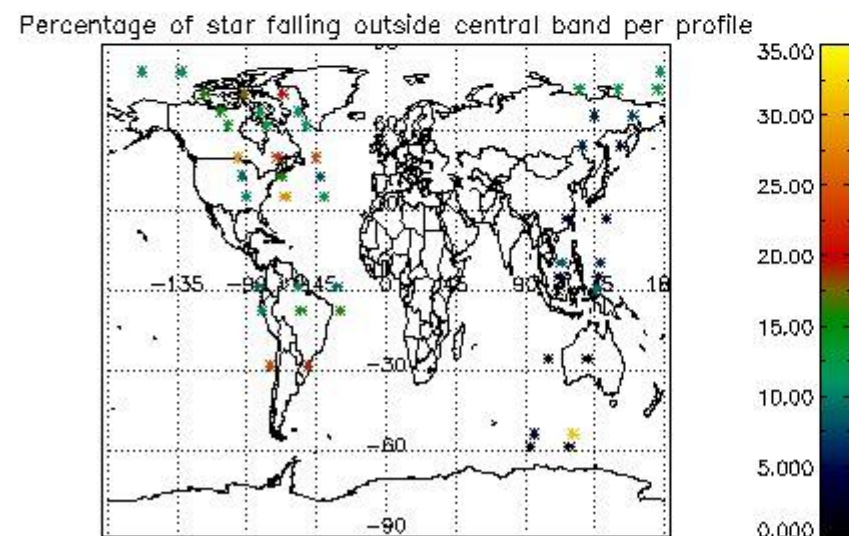
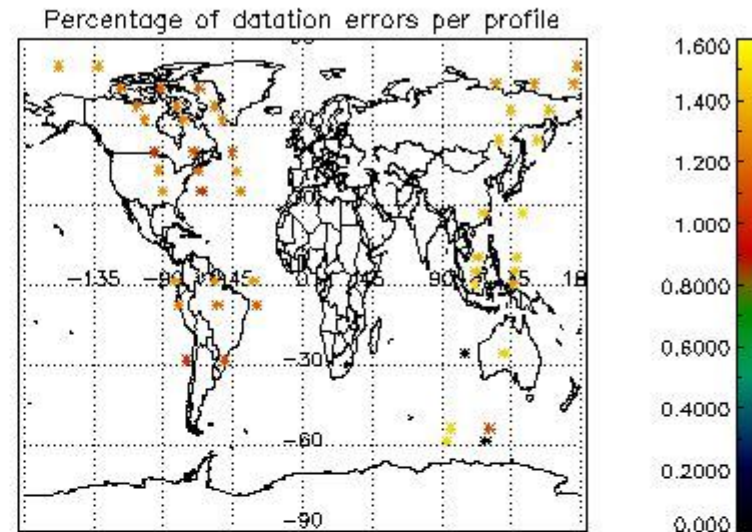
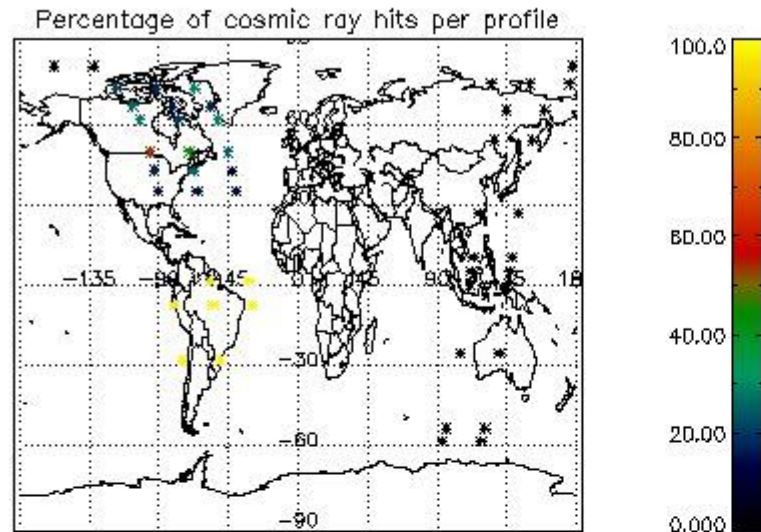
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



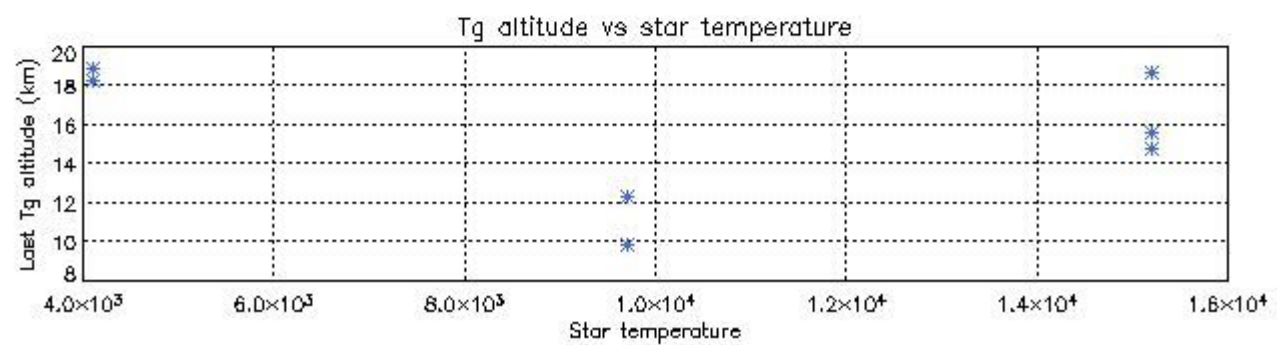
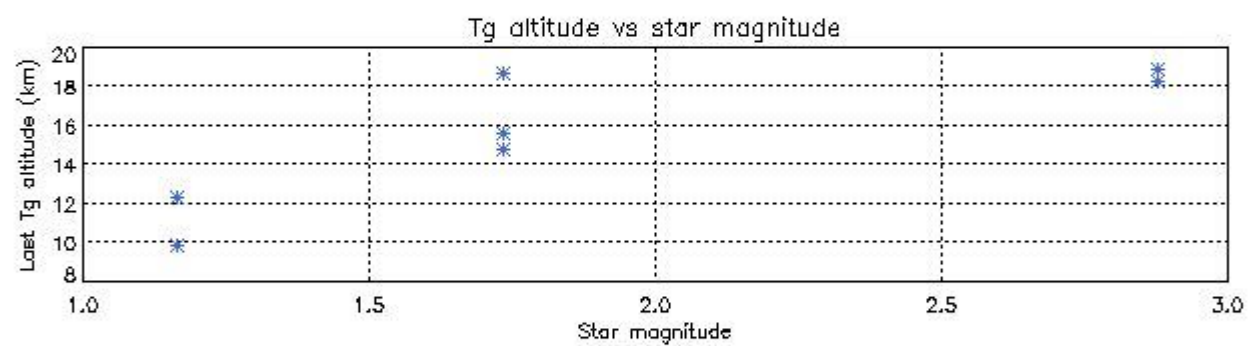
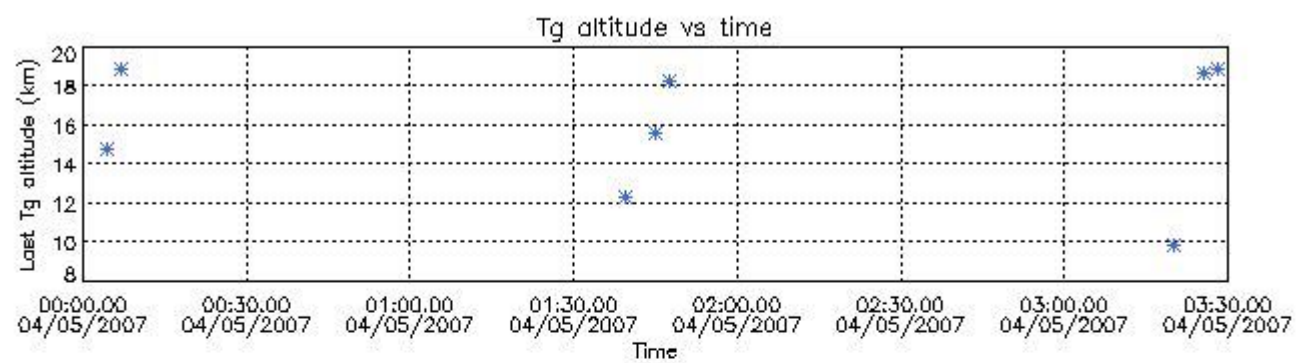
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.886	21.274	NaN
St. deviation:	3.4197	4.9973	NaN
Maximum:	18.842	30.193	NaN
Minimum:	9.8610	7.9747	NaN
Number of data:	8.0000	24.000	NaN

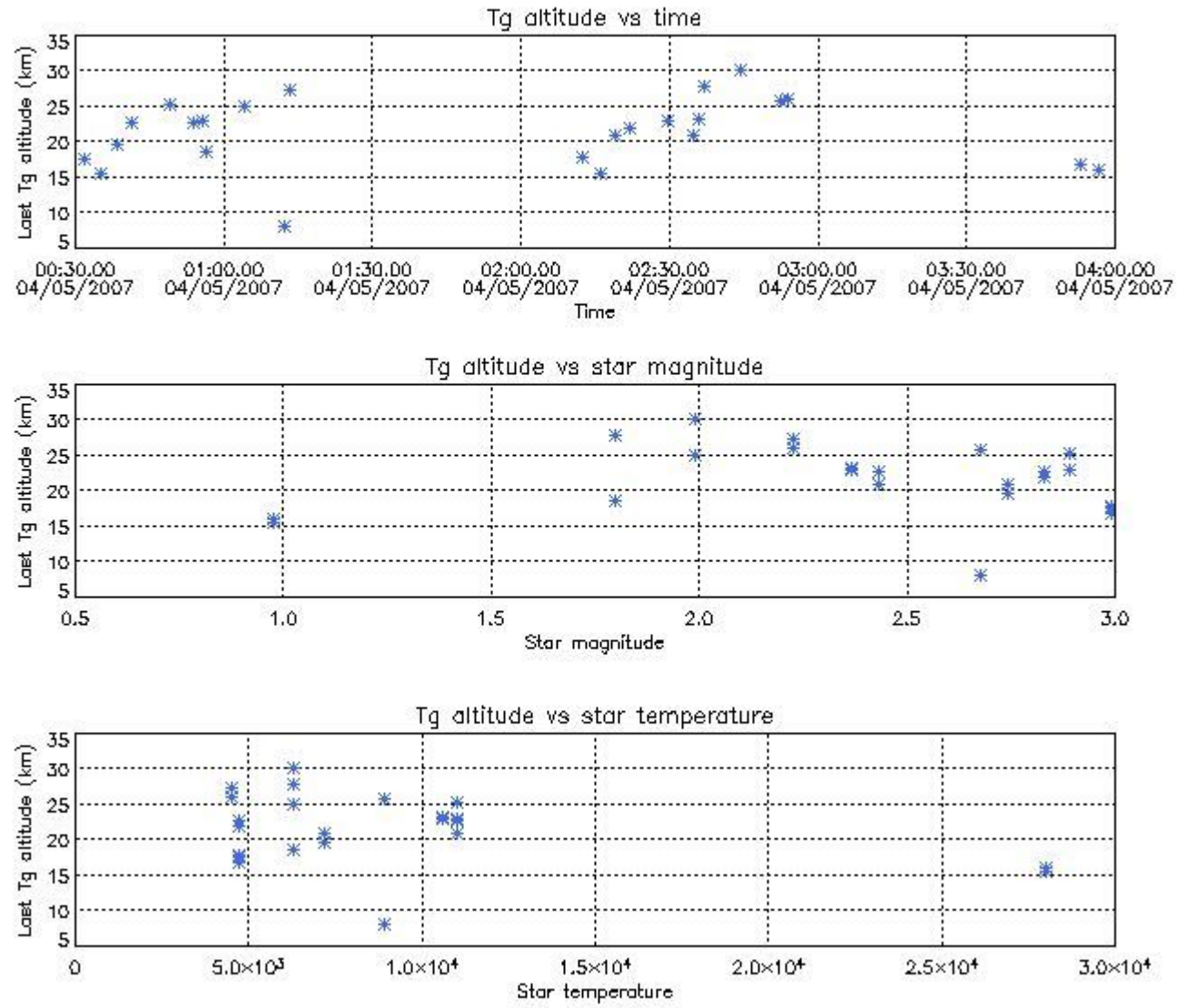
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

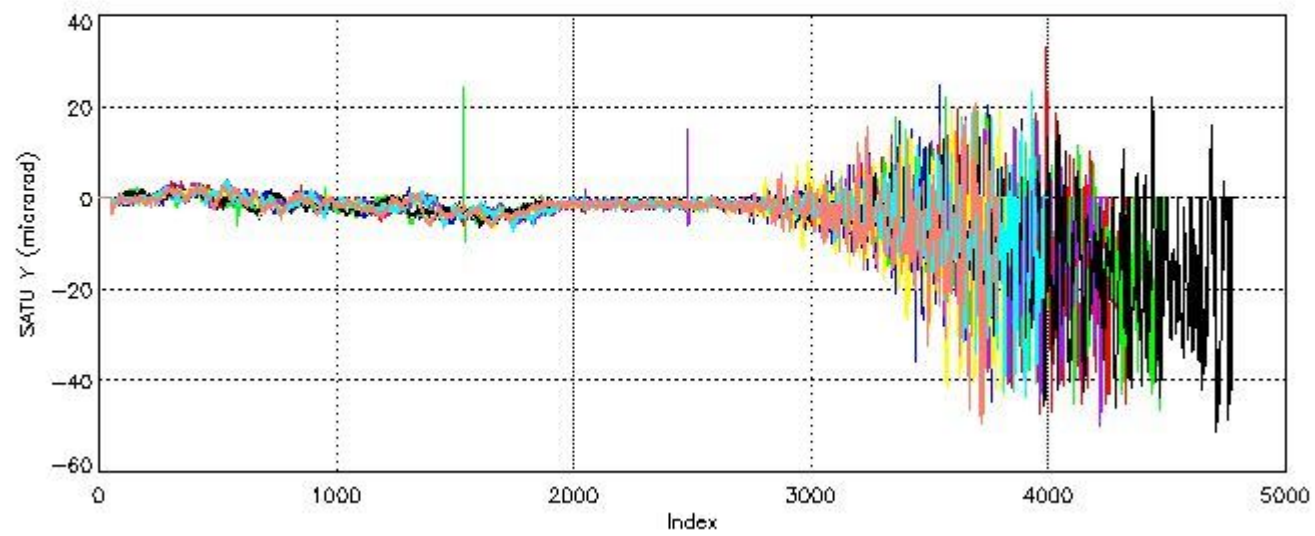
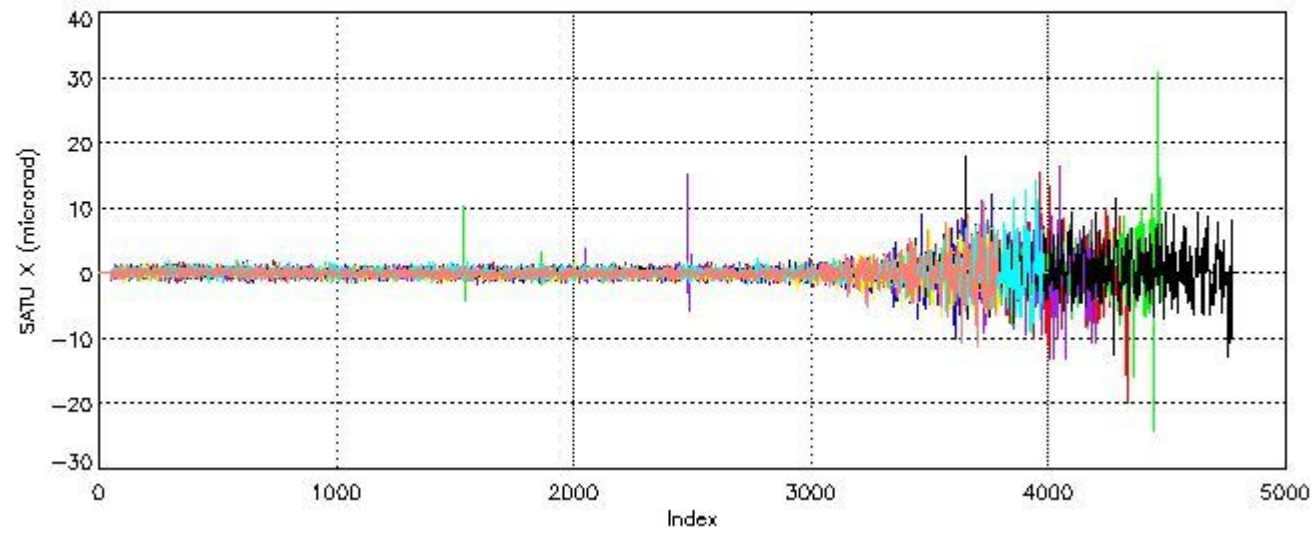


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.10347	-0.20035	0.043566	-0.44227
St. deviation:	0.41320	1.2894	0.80235	1.4675
Maximum:	2.0000	4.0000	5.7000	6.3000
Minimum:	-1.6000	-6.1000	-4.7000	-6.8000

Number of data:	7450.0	7450.0	19950.	19950.
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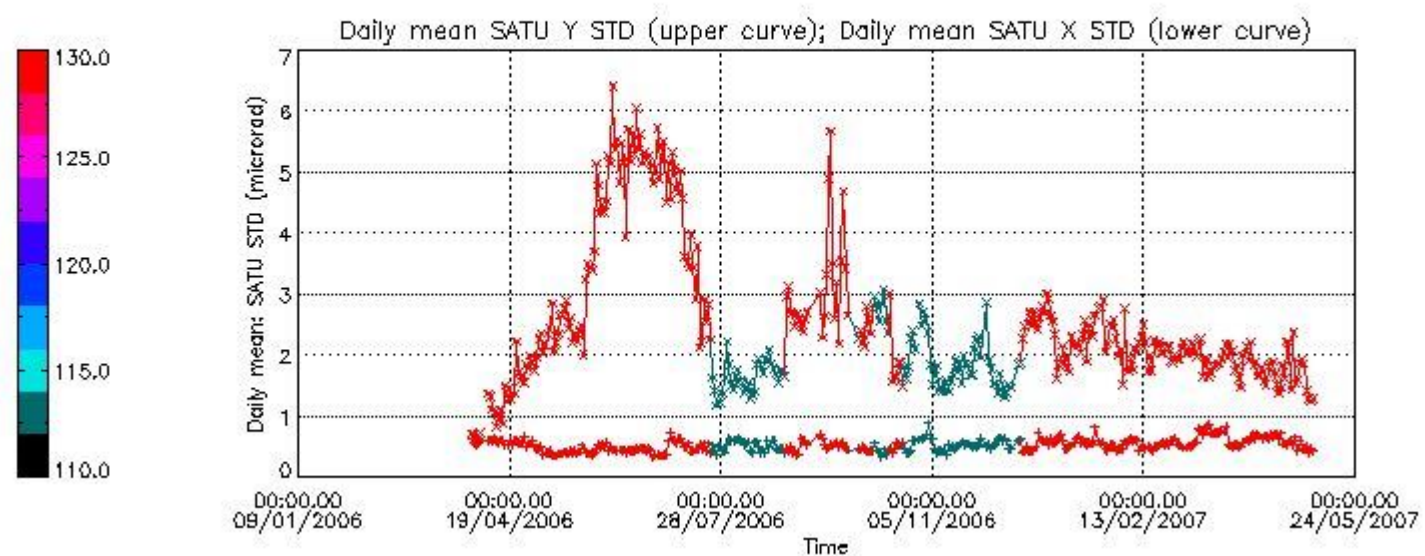
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

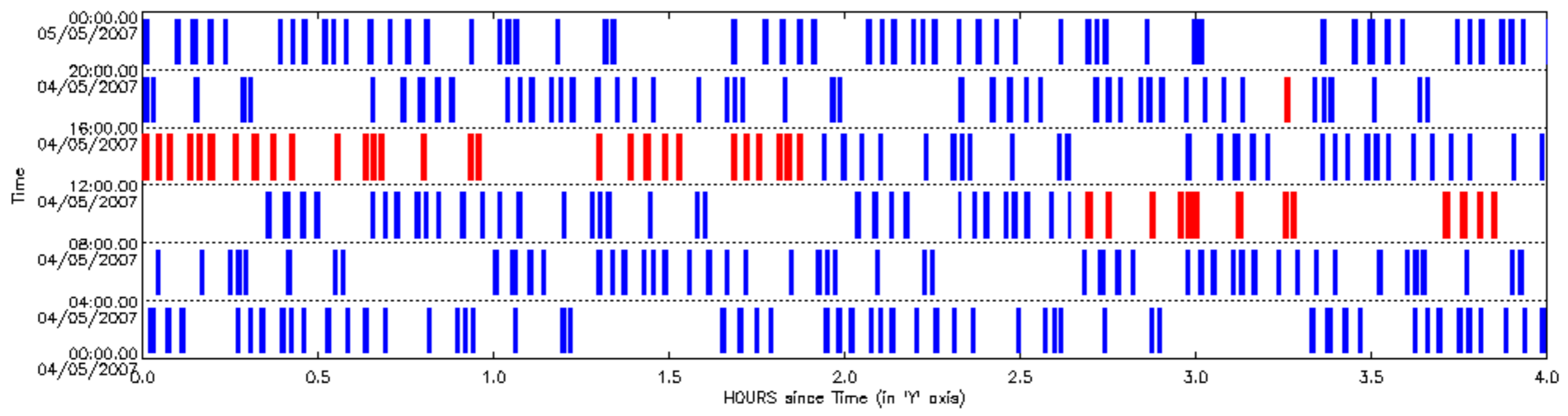
Lower curve: STD of SATU X axis

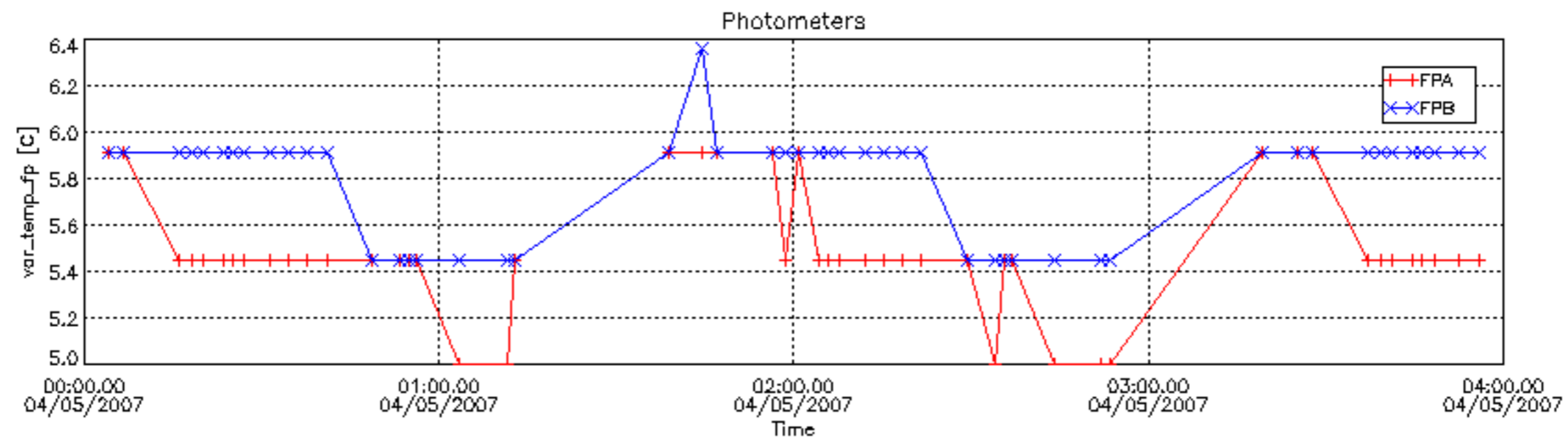
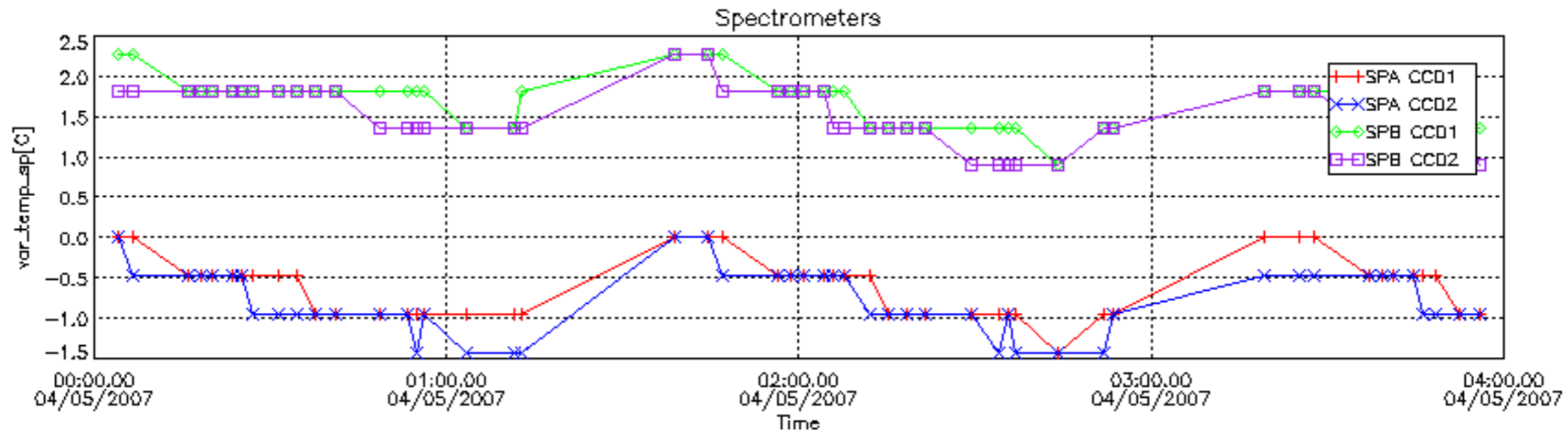


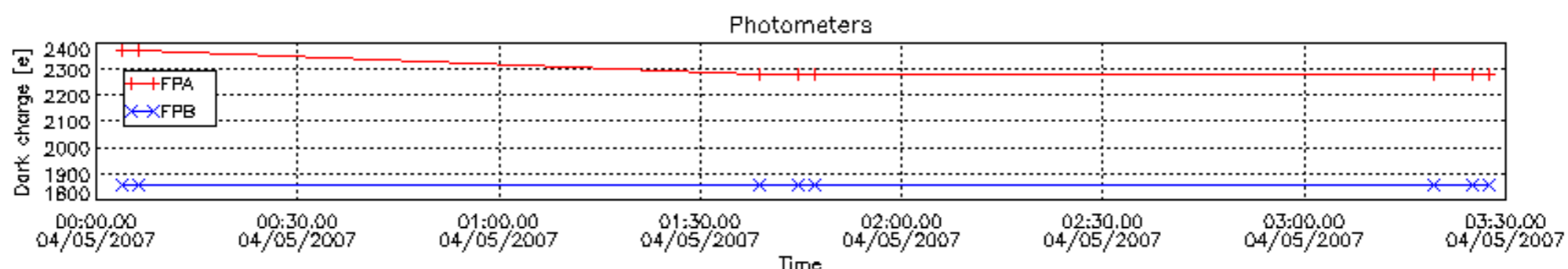
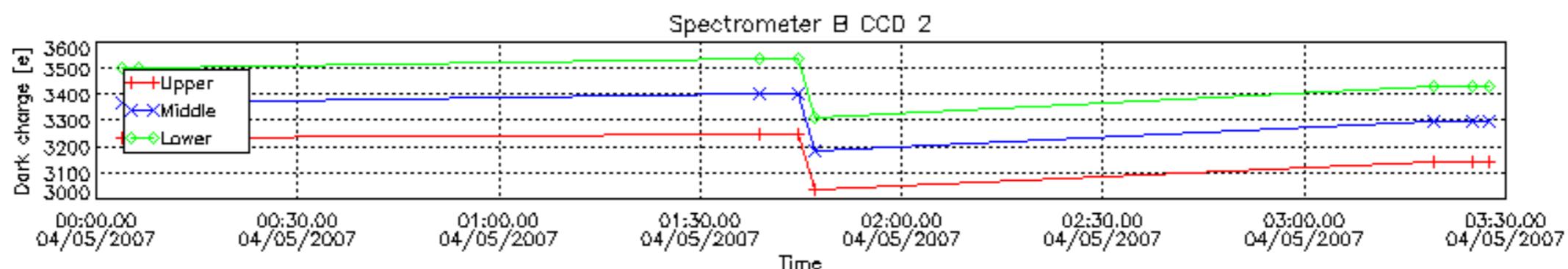
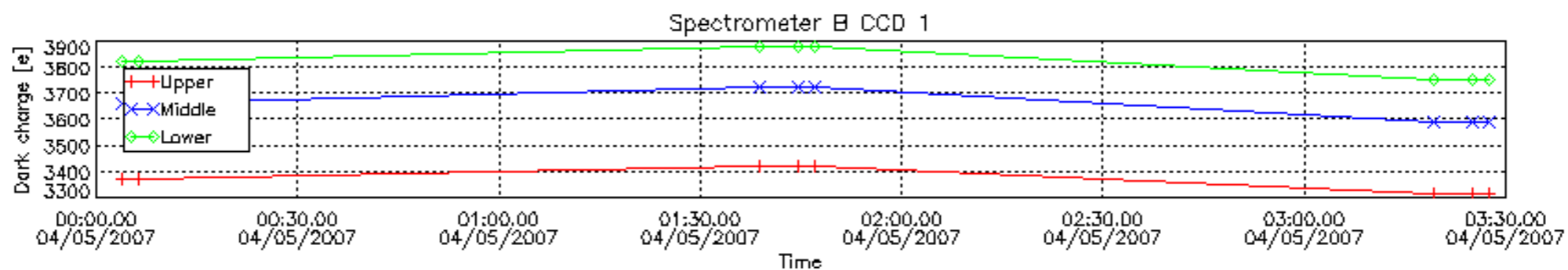
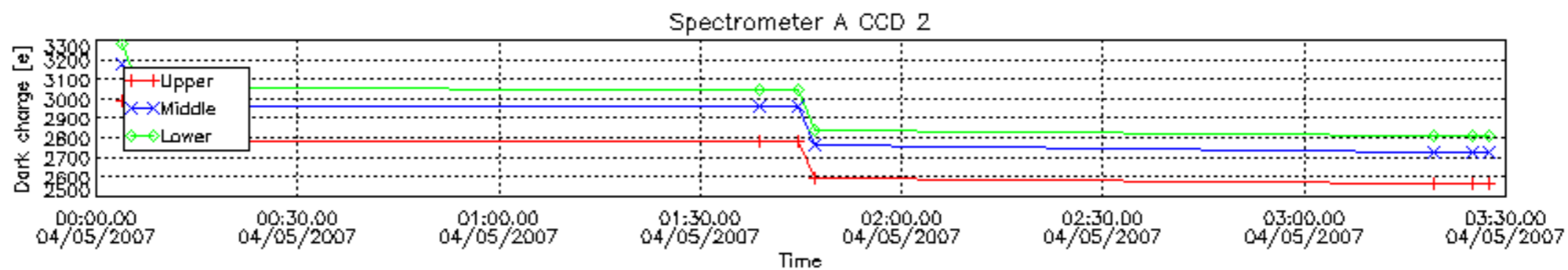
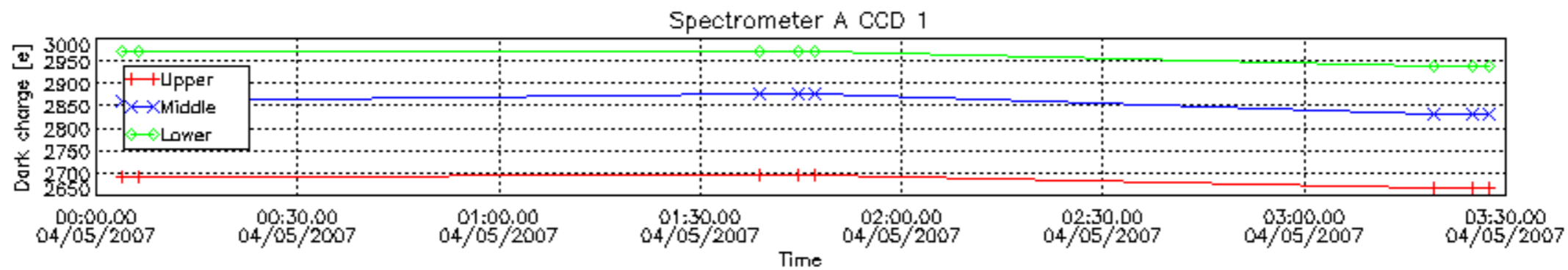
8. Auxiliary Data Files used for the production reported in section 2.4

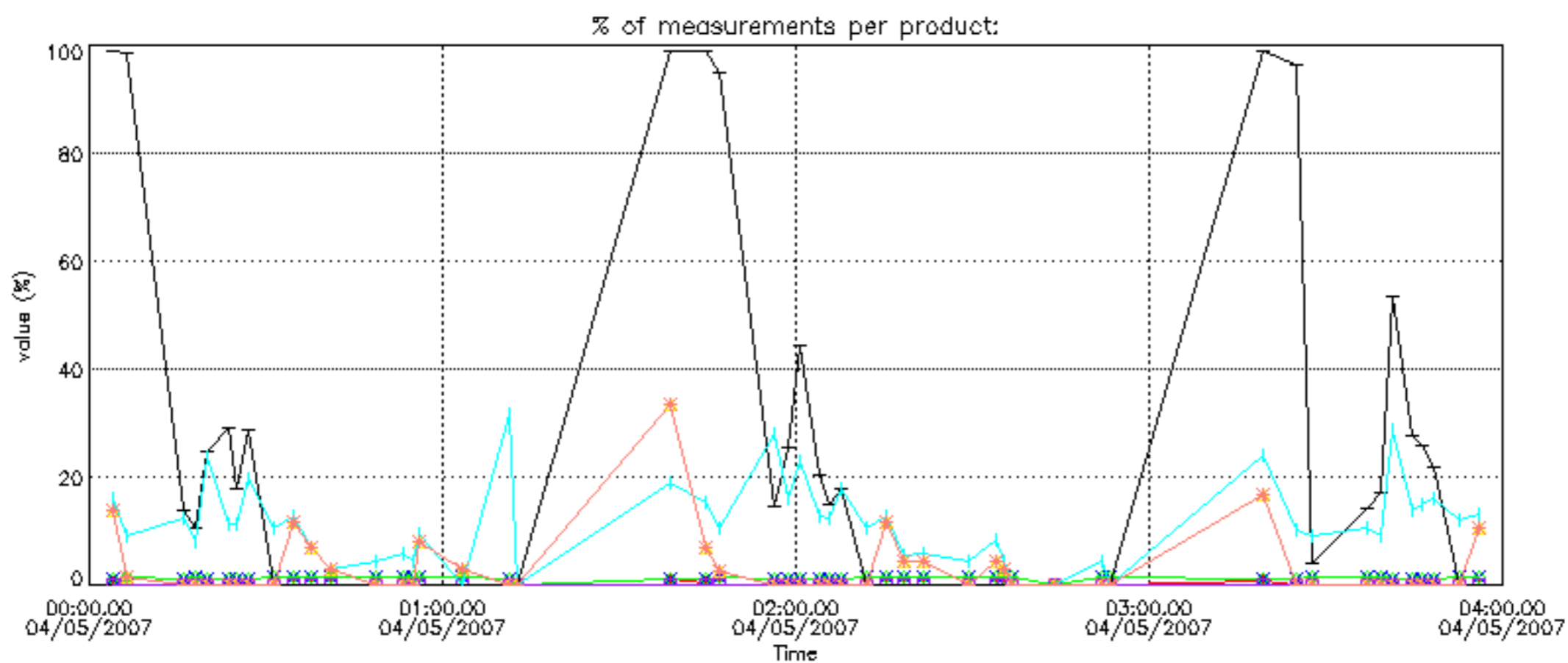
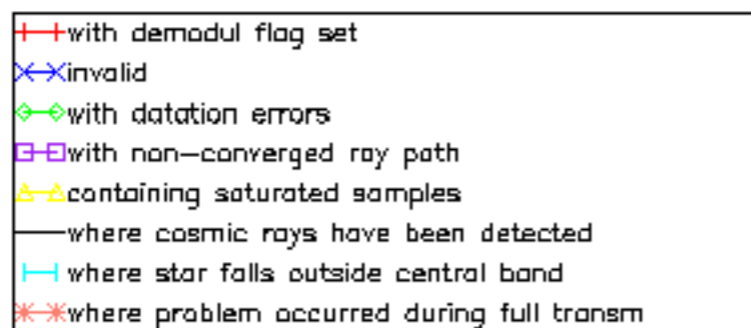
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	04-MAY-2007 00:03:56
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-MAY-2007 00:03:56
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-MAY-2007 00:03:56
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-MAY-2007 00:03:56
ECMWF_FILE	AUX_ECF_AXNECM20070503_062111_20070503_210000_20070504_090000	1	04-MAY-2007 00:03:56
OPTIONAL_ECMWF_FILE	MISSING	1	04-MAY-2007 00:03:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070503_220751_000060572057_00444_27051_3411.N1	1	04-MAY-2007 00:03:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070503_234848_000057382057_00445_27052_3412.N1	20	04-MAY-2007 01:38:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070504_012945_000041442057_00446_27053_3413.N1	38	04-MAY-2007 02:52:02

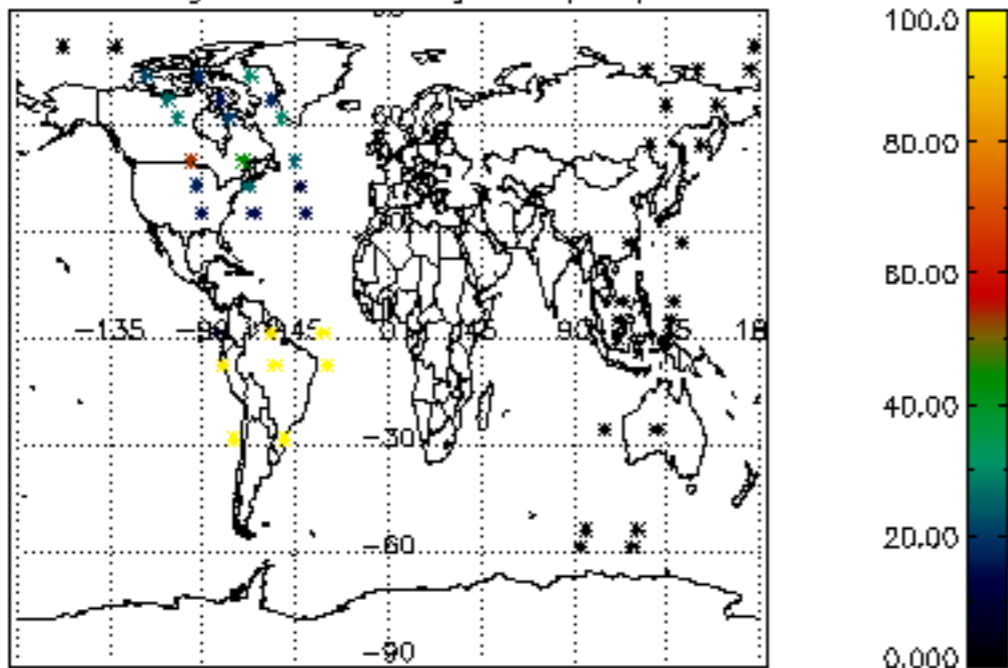




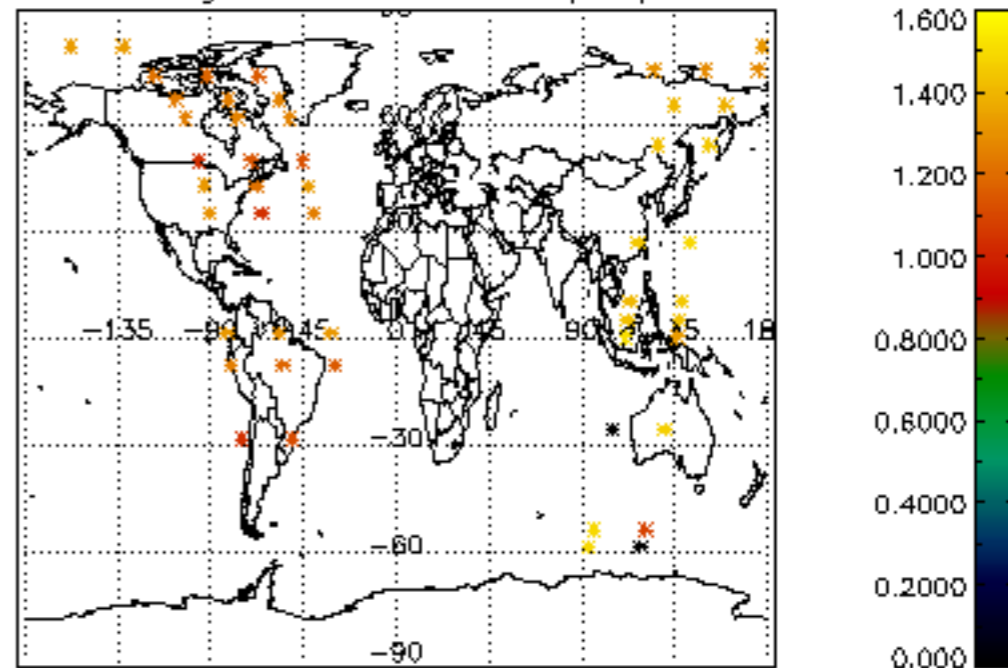




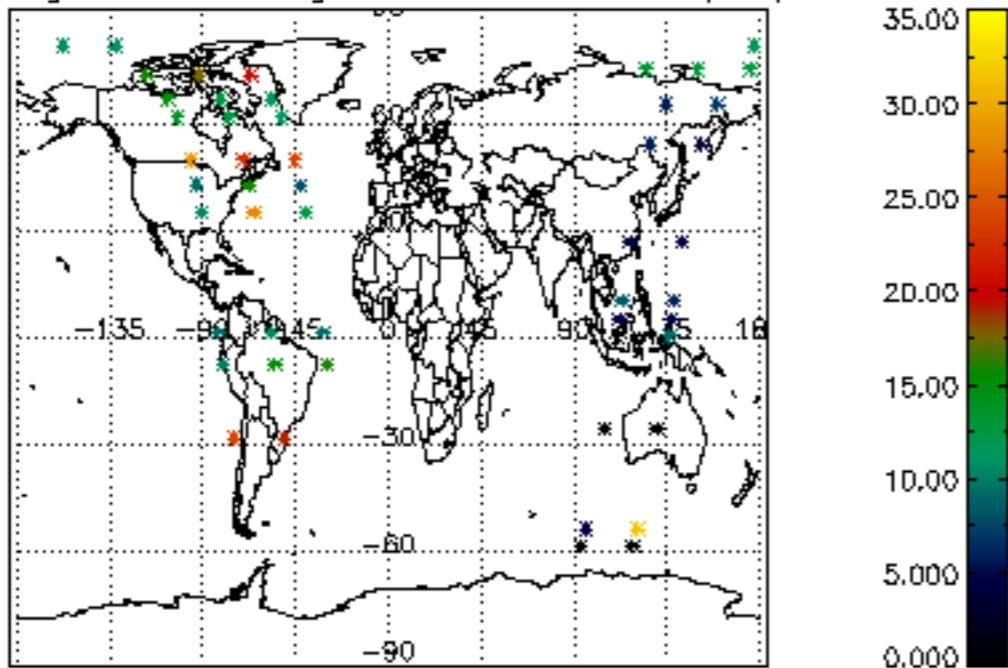
Percentage of cosmic ray hits per profile



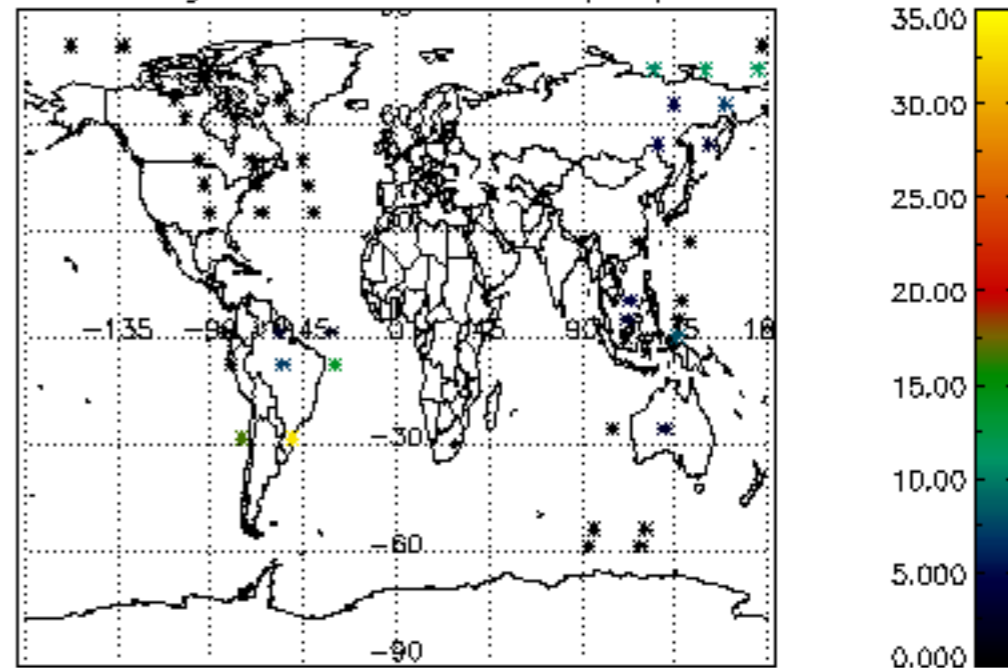
Percentage of datation errors per profile



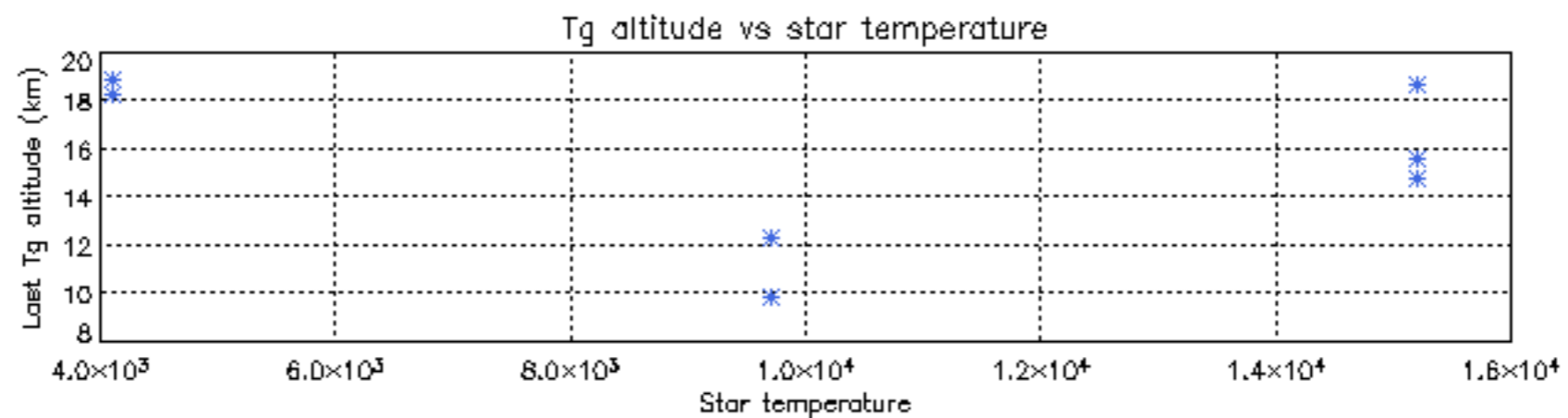
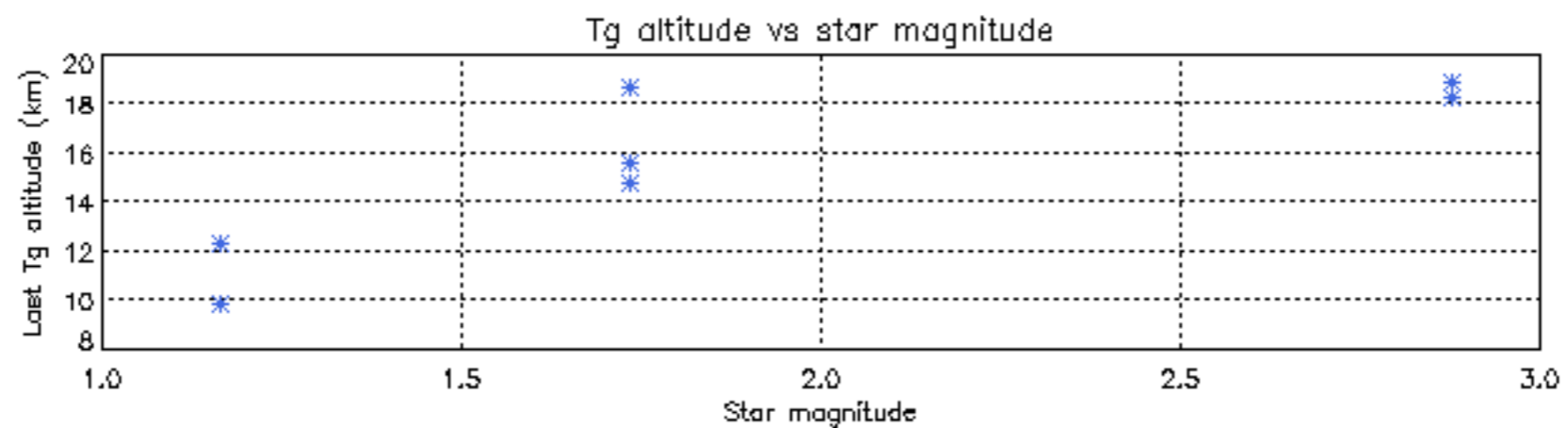
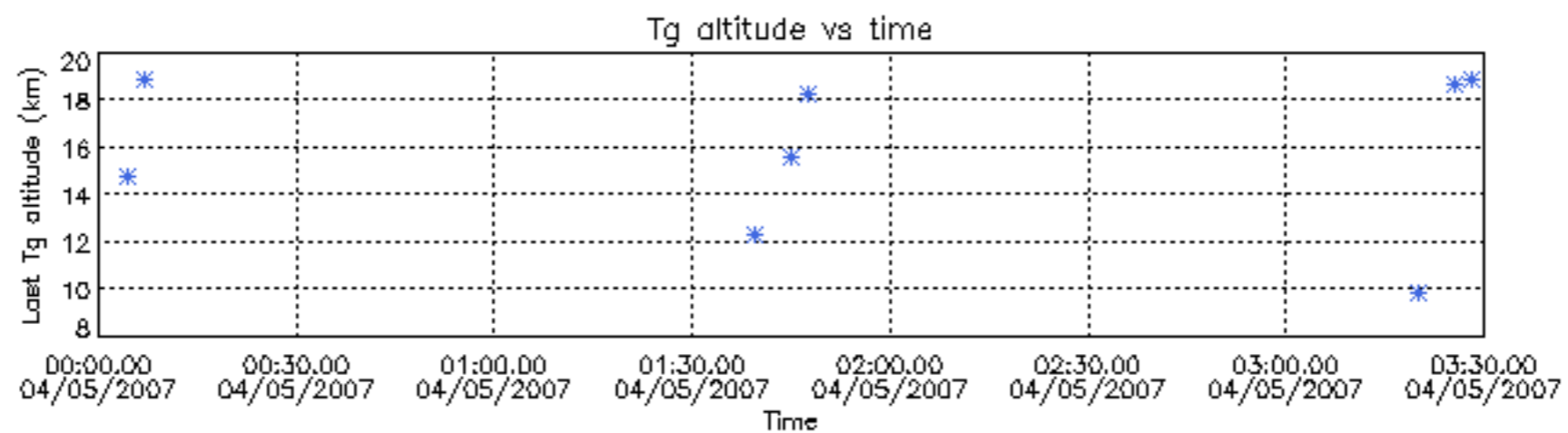
Percentage of star falling outside central band per profile



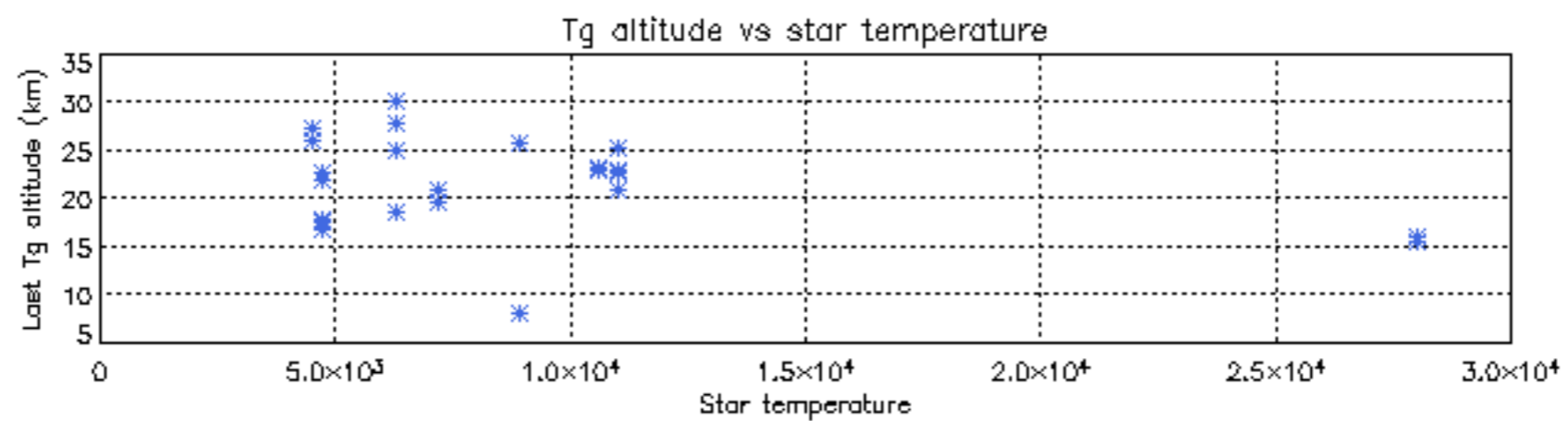
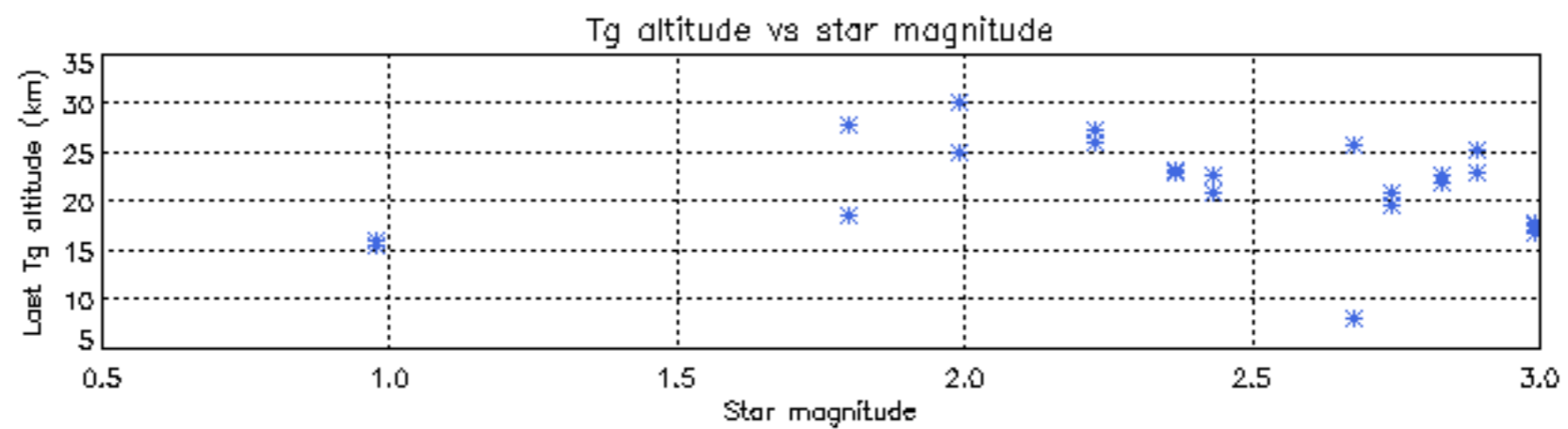
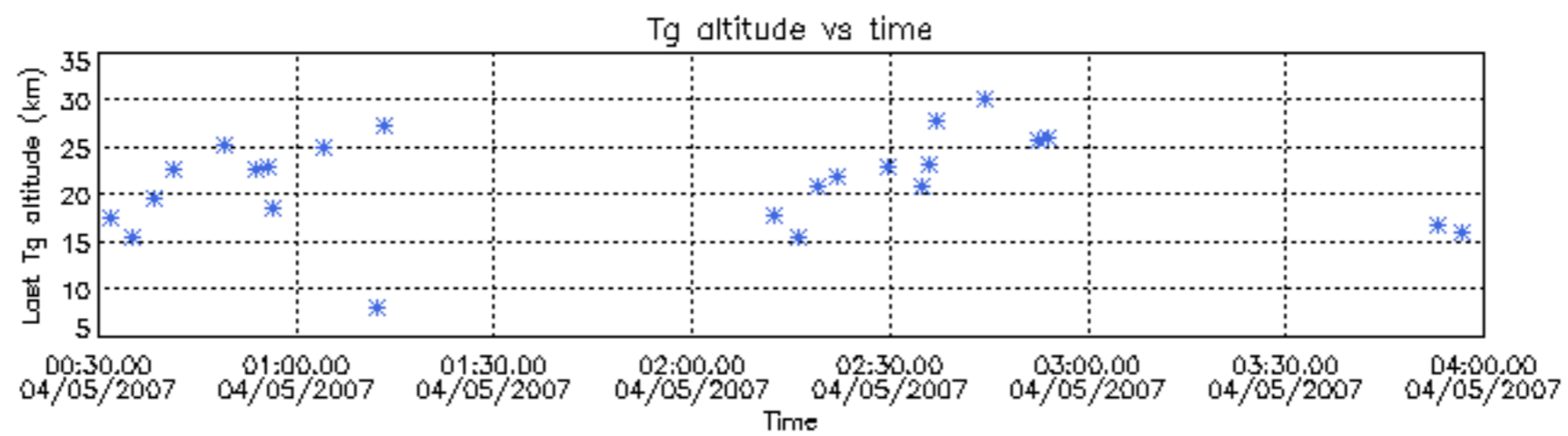
Percentage of saturation errors per profile

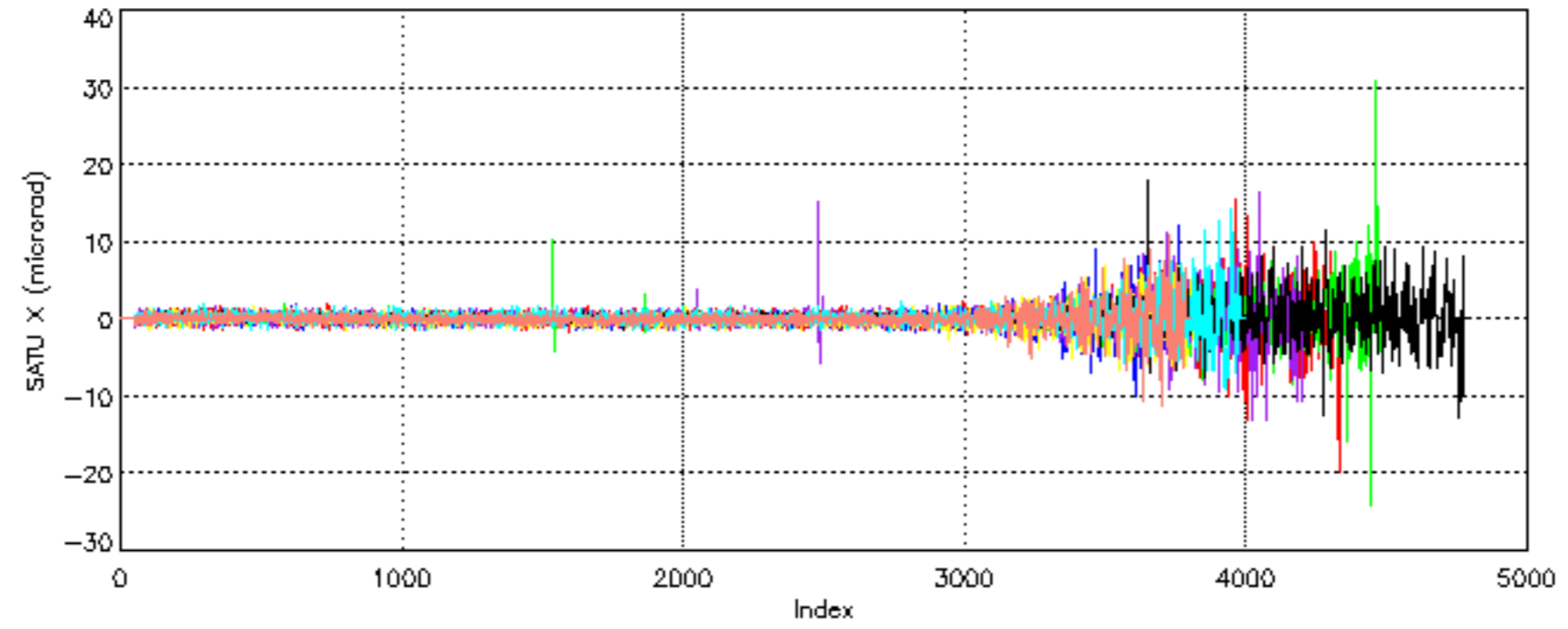


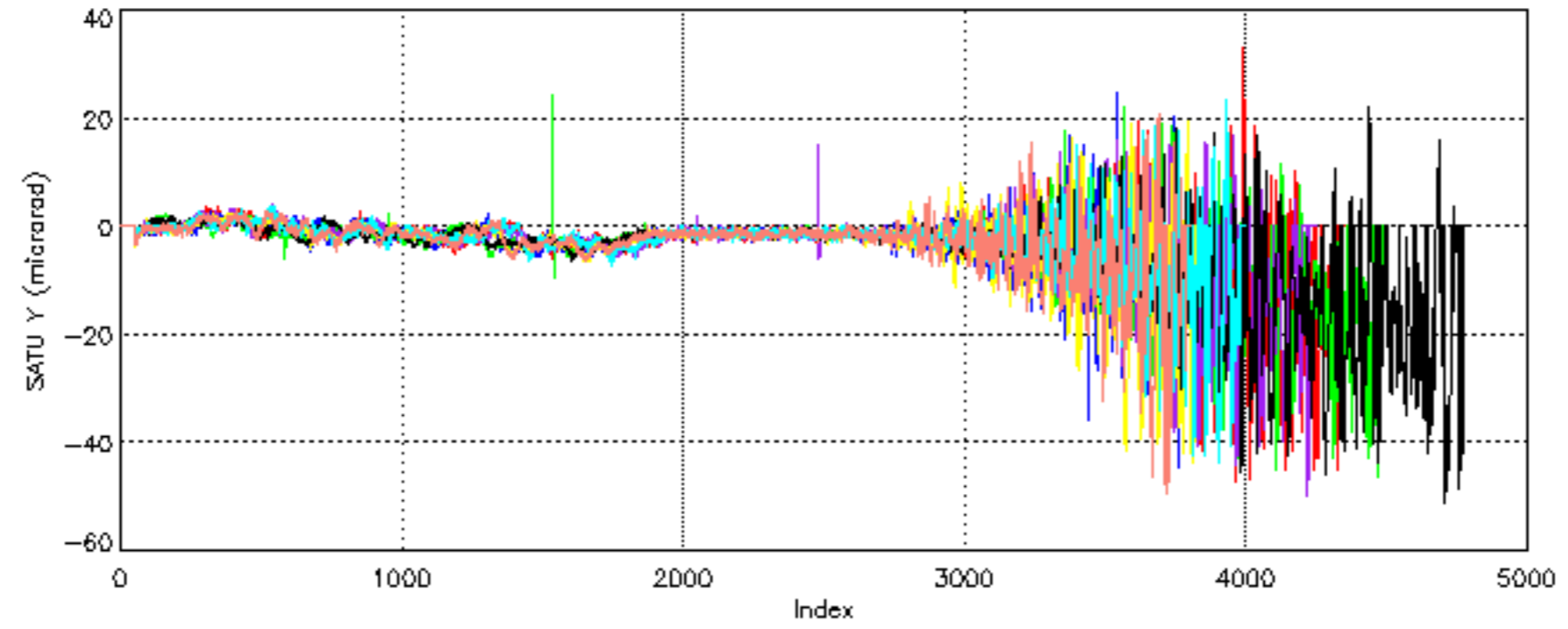
Tangent altitude at which the star is lost

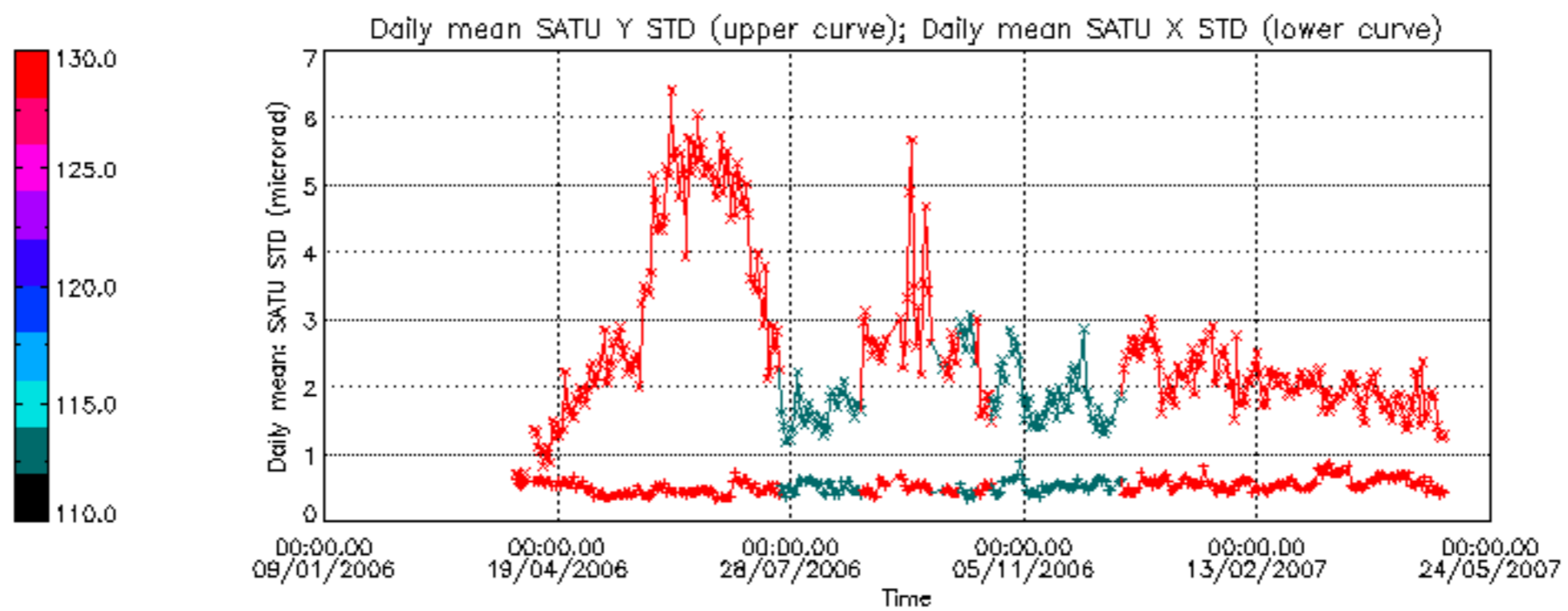


Tangent altitude at which the star is lost









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 14; 1715.6; 03-MAY-2007 06:08:03; Bright; 37.0; 15; 67Alp Vir ; 0.98; 28000;occ; 74; 0;27042
 15; 1901.1; 03-MAY-2007 06:11:08; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27042
 16; 2097.8; 03-MAY-2007 06:14:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27042
 17; 2559.9; 03-MAY-2007 06:22:07; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27042
 18; 2837.3; 03-MAY-2007 06:26:44; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;27042
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 16; 4003.3; 03-MAY-2007 21:51:34; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27051

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 5; 721.8; 03-MAY-2007 22:37:28; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27052
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 9; 1264.4; 03-MAY-2007 22:46:31; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;27052
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 12; 1902.6; 03-MAY-2007 22:57:09; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27052
 13; 2098.6; 03-MAY-2007 23:00:25; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27052
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 17; 3004.9; 03-MAY-2007 23:15:31; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27052
 18; 3445.0; 03-MAY-2007 23:22:51; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;27052
 19; 3923.4; 03-MAY-2007 23:30:50; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;27052
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 4; 23.1; 04-MAY-2007 00:06:25; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27053
 5; 590.3; 04-MAY-2007 00:15:53; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;27053
 6; 722.1; 04-MAY-2007 00:18:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27053
 7; 842.2; 04-MAY-2007 00:20:04; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;27053
 8; 1049.2; 04-MAY-2007 00:23:31; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27053

9; 1141.4; 04-MAY-2007 00:25:04; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27053
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 12; 1716.7; 04-MAY-2007 00:34:39; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27053
 13; 1902.8; 04-MAY-2007 00:37:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27053
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 15; 2559.9; 04-MAY-2007 00:48:42; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27053
 16; 2839.2; 04-MAY-2007 00:53:21; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;27053
 17; 2928.2; 04-MAY-2007 00:54:50; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27053
 18; 3005.1; 04-MAY-2007 00:56:07; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27053
 19; 3444.9; 04-MAY-2007 01:03:27; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27053
 20; 3923.5; 04-MAY-2007 01:11:26; Bright; 46.0; 110; 37Del Cas ; 2.68; 8900;occ; 92; 0;27053
 21; 4003.6; 04-MAY-2007 01:12:46; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;27053

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 5; -132.4; 03-MAY-2007 07:17:51; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;27042
 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
 13; 1517.5; 03-MAY-2007 07:45:20; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27043

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Problem occurred when reading packet number 377!

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 4; 2559.9; 03-MAY-2007 08:02:43; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27043
 5; 2837.4; 03-MAY-2007 08:07:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27043
 6; 2925.1; 03-MAY-2007 08:08:48; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;27043
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 11; 5556.4; 03-MAY-2007 08:52:39; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;27043
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3; 2098.0; 03-MAY-2007 11:16:13; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;27045
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5; 20.6; 03-MAY-2007 12:22:11; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27046
6; 588.0; 03-MAY-2007 12:31:39; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27046
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10; 1145.2; 04-MAY-2007 23:53:31; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27067
11; 1267.8; 04-MAY-2007 23:55:33; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27067
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22; 4004.8; 05-MAY-2007 00:41:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27067
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7; 591.8; 04-MAY-2007 06:58:18; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27057
8; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
9; 843.3; 04-MAY-2007 07:02:29; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;27057
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11; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
12; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
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23; 7195.0; 08-MAY-2007 13:24:17; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27117
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8; 3446.9; 31-MAY-2007 13:39:27; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27447
9; 3930.2; 31-MAY-2007 13:47:30; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;27447
10; 4392.9; 31-MAY-2007 13:55:13; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;27447
11; 5384.5; 31-MAY-2007 14:11:44; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27447
12; 5645.8; 31-MAY-2007 14:16:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27447
13; 5787.2; 31-MAY-2007 14:18:27; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;27447
14; 6102.8; 31-MAY-2007 14:23:42; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;27447
15; 6214.1; 31-MAY-2007 14:25:34; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27447
16; 6515.7; 31-MAY-2007 14:30:35; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;27447
17; 6891.4; 31-MAY-2007 14:36:51; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27447
18; 6965.9; 31-MAY-2007 14:38:06; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;27447
19; 7066.9; 31-MAY-2007 14:39:47; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;27447
20; 7175.0; 31-MAY-2007 14:41:35; Dark ; 47.0; 25; 35Lam Sco ; 1.62; 28000;occ; 94; 0;27447
21; 7283.0; 31-MAY-2007 14:43:23; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;27447
22; 7405.9; 31-MAY-2007 14:45:26; Dark ; 40.0; 136; 23Tau Sco ; 2.82; 30000;occ; 80; 0;27447

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4; 1834.3; 31-MAY-2007 14:53:10; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;27448
5; 2015.3; 31-MAY-2007 14:56:11; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27448
6; 2370.8; 31-MAY-2007 15:02:06; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;27448
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8; 3166.5; 31-MAY-2007 15:15:22; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27448
9; 3447.0; 31-MAY-2007 15:20:03; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27448
10; 3930.5; 31-MAY-2007 15:28:06; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27448
11; 4393.3; 31-MAY-2007 15:35:49; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;27448
12; 5385.1; 31-MAY-2007 15:52:21; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27448
13; 5646.3; 31-MAY-2007 15:56:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27448
14; 5787.9; 31-MAY-2007 15:59:04; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;27448
15; 6103.7; 31-MAY-2007 16:04:19; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;27448
16; 6215.1; 31-MAY-2007 16:06:11; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27448
17; 6516.5; 31-MAY-2007 16:11:12; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27448
18; 6891.8; 31-MAY-2007 16:17:27; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27448
19; 6966.5; 31-MAY-2007 16:18:42; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;27448
20; 7067.4; 31-MAY-2007 16:20:23; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27448
21; 7175.6; 31-MAY-2007 16:22:11; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27448

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3; 1370.2; 31-MAY-2007 16:26:02; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;27449
4; 1542.4; 31-MAY-2007 16:28:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27449
5; 1702.4; 31-MAY-2007 16:31:34; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27449
6; 1834.4; 31-MAY-2007 16:33:46; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27449
7; 2015.4; 31-MAY-2007 16:36:47; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27449
8; 2370.7; 31-MAY-2007 16:42:42; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27449
9; 3008.2; 31-MAY-2007 16:53:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27449
10; 3166.4; 31-MAY-2007 16:55:58; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27449
11; 3446.9; 31-MAY-2007 17:00:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27449
12; 3930.6; 31-MAY-2007 17:08:42; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27449
13; 4393.4; 31-MAY-2007 17:16:25; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27449
14; 5385.8; 31-MAY-2007 17:32:57; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;27449
15; 5646.7; 31-MAY-2007 17:37:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27449
16; 5788.4; 31-MAY-2007 17:39:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;27449
17; 6104.5; 31-MAY-2007 17:44:56; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;27449
18; 6216.1; 31-MAY-2007 17:46:48; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27449
19; 6517.2; 31-MAY-2007 17:51:49; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27449
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21; 6966.8; 31-MAY-2007 17:59:18; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27449
22; 7067.9; 31-MAY-2007 18:00:59; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27449

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4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
5; 1542.6; 31-MAY-2007 18:09:30; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27450
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9;	2370.5;	31-MAY-2007	18:23:18;	Bright;	37.0;	67;	5Alp CrB	;	2.22;	11000;occ;	74;	0;27450	
10;	3007.9;	31-MAY-2007	18:33:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;27450	
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13;	3930.1;	31-MAY-2007	18:49:18;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;27450	
14;	4393.3;	31-MAY-2007	18:57:01;	Bright;	44.5;	53;	43Bet And	;	2.05;	3300;occ;	89;	0;27450	
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18;	6105.3;	31-MAY-2007	19:25:33;	Dark	;	51.5;	63;	Bet Gru	;	2.15;	2800;occ;	103;	0;27450
19;	6216.9;	31-MAY-2007	19:27:25;	Dark	;	44.5;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;27450
20;	6517.8;	31-MAY-2007	19:32:25;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;27450
21;	6892.5;	31-MAY-2007	19:38:40;	Dark	;	38.5;	141;	Bet Ara	;	2.84;	4600;occ;	77;	0;27450
22;	6967.1;	31-MAY-2007	19:39:55;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;occ;	77;	0;27450